

Date: Fri, 26 Feb 93 04:30:14 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #259
To: Info-Hams

Info-Hams Digest Fri, 26 Feb 93 Volume 93 : Issue 259

Today's Topics:

ARRL DX bulletin #11 - February 26, 1993
 Realistic Pro-38?
 SECRET FUNCTION OF TH-78
 Soldering PL259's
 too darn big!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 25 Feb 1993 19:15:59 MST
From: dog.ee.lbl.gov!pasteur!agate!howland.reston.ans.net!gatech!destroyer!
cs.ubc.ca!alberta!adec23!ve6mgs!usenet@network.UCSD.EDU
Subject: ARRL DX bulletin #11 - February 26, 1993
To: info-hams@ucsd.edu

ZCZC AE37
QST de W1AW
DX Bulletin 11 ARLD011
~From ARRL Headquarters
Newington CT February 26, 1993
To all radio amateurs

SB DX ARL ARLD011
ARLD011 DX news

Thanks to The DX Bulletin and QRZ DX for the items in this week's
bulletin.

WESTERN SAHARA. S0RASD has been worked on 20 through 10 meters from the east coast. QSL via EA2JG.

MARKET REEF. OJ0/OH3AC fired up on Thursday morning. They have been worked on the usual DX windows from 17 through 10 meters. This operation is supposed to last through this weekend. QSL via home call.

KINGMAN REEF. A twelve operator team will sail from Hawaii on February 28 and operate /MM on their way to Kingman. This major operation, consisting of four HF positions, 6 meter and satellite stations, will sign N9NS/KH5K. Look for their CW on 1835, 3505, 7020, 10104, 14020, 18070, 21020, 24895 and 28020 kHz. RTTY will be around 14080, 210800 and 28080 kHz. Check 1835, 3795, 7075, 14195, 18115, 21295, 24935 and 28495 for SSB.

PALMYRA ISLAND. The Kingman Reef team will set up two HF stations, 6 meters and satellite positions and operate as N0AFW/KH5 simultaneously.

SPRATLY ISLANDS. An eleven member, multi-national team will operate 9M0S from Malaysian occupied Pulau Layang-Layang, aka Swallow Reef, March 11 through 17. For CW try 1827, 3502/3522, 7002/7022, 10102, 14023, 18073, 21023, 24892 and 28023 kHz. SSB will be on 1827, 3972, 7065, 14190, 18103, 21290, 24932 and 28490 kHz. It is reported that their WARC band operating is pending receipt of permission from Malaysian authorities. QSL via PO Box 5127, Suffolk VA 23435.

BELAU. Tosy, JA6VZB, will be island hopping over the next few weeks. Look for him signing KC6VW, and JA6EGL signing either KC6SM or KC6MS from March 5 through 10. QSL KC6VW via JA6BSM. KC6SM or KC6MS cards go via JA6EGL.

NORTHERN MARIANAS. Then it's on to Rota Island as AH0AL, March 10 through 13. Watch for his RTTY and WARC band activity. QSL via JA6BSM.

MICRONESIA. JA6VZB and JA6EGL will sign V63BM and V63MK respectively, from late March through April 4. QSL V63MB via JA6BSM, and V63MK via JA6EGL.

THIS WEEKEND ON THE RADIO. Here is the rundown on operating activities slated for the weekend of February 27 and 28. Work one, some or all.

CQ World Wide 160 Meter DX Contest, phone. Check December QST page

128. Look for ZF2TT by W6NLG. QSL via Box 60031, Sunnyvale CA 94088. Also, A92BE will be active from Bahrain.

REF French Contest, phone. Check December QST page 128 for details.

RSGB 7 MHz Contest, sponsored by the Radio Society of Great Britain. This CW only event will be between 7000 and 7030 kHz. Check January QST page 117 for details.

YL OM Contest, CW. Check February QST page 115 for details.

The annual ARRL DX CONTEST on SSB is the weekend of March 6 and 7. Look for 9M6 from Eastern Malaysia, and J73E or J73EK from Dominica. Remember that Aeronautical and Maritime mobile QSOs will count for QSO credit, but NOT as multipliers, for US/Canada stations starting with this year's tests.

NNNN

--

Jim Reisert	Internet: reisert@mast.enet.dec.com
Digital Equipment Corp.	UUCP: ...decwrl!mast.enet.dec.com!reisert
146 Main Street - ML03-6/C9	Voice: 508-493-5747
Maynard, MA 01754	FAX: 508-493-0395

Date: 26 Feb 93 03:54:43 GMT
From: usc!howland.reston.ans.net!newsserver.jvnc.net!netnews.upenn.edu!
netnews.cc.lehigh.edu!ns1.cc.lehigh.edu!lcj0@network.UCSD.EDU
Subject: Realistic Pro-38?
To: info-hams@ucsd.edu

Good or bad? I was also thinking about the Icom that scans from 100hz to 1300 ghz, of course that is much more costly, but you certainly get much more for the money....

--

lcj0@Lehigh.edu

Lutzer (R)
LUCC Student Konsultant

C Code. C Code run. Run code run. Please?

Date: 26 Feb 93 08:16:45 GMT
From: news-mail-gateway@ucsd.edu

Subject: SECRET FUNCTION OF TH-78
To: info-hams@ucsd.edu

Hello all,

This is again the TH-78 mods i archived, original is from PE1ACG @ ON4UBO i received on packet.

If you have other mods, please send them to me to complete my archives, THANKS.

Frederic,

FC1JS0 @ stna7.stna.dgac.fr

SECRET FUNCTION MANUAL OF THE KENWOOD TH-78x PORTO

TH-78E RX EXPANSION (ON)

Press PTT + VF0, then POWER ON.

New RX ranges after this modification:

VHF Band 50 - 136 Mhz only AM)
136 - 174 Mhz (only FM)
320 - 390 Mhz (AM + FM) see note below.
UHF Band 405 - 510 Mhz (only FM)
800 - 950 Mhz (only FM)

VHF Band:

```

----->I  AMATEUR  I====I  AIR  I--->I  320 Mhz  I-----
I      I_____I      I_____I      I_____I      I
I
I

```

UHF Band:

```

      -----
--->I  AMATEUR I--->I  900 Mhz I-----
I      I-----I      I-----I      I
I      I-----I      I-----I      I

```

Note: Receiving mode of the 340 Mhz Band can be switched from FM to AM by press and hold VFO key then POWER ON.

TH-78E RX EXPANSION (OFF)

Reset your TH-78E by pressing the

I	M	I
I	---	I

 key, when powering ON

TH-78E TX EXPANSION

Remove the diode D6 from the control unit.

New TX ranges after this modification:

VHF Band 136.000 - 174.250 Mhz (FM)

UHF Band 400.000 - 493.000 Mhz (FM)

TH-78E UHF BAND 432-438 Mhz LIMITED RANGE

Remove the diode D3 from the control unit.

TH-78A/E EXTENDED FUNCTION

You can change the frequency range and use various secret function of the TH-78A/E by changing his destination. A secret function is available without modification.

Destination modification

The destination is determined by diodes D2,D3,D5, and D6. Change the destination with reference to table 2. For information about setting the destination by diode, see the destination column of table 2.

The diodes are protected by a shield plate. Remove the shield plate, then remove the appropriate diodes.

Refere to your schematic diagram TH-78A/E 2/2

Control Unit Board X53-342X-XX A/5

Cupper shield plate			Table 2					
:	:	/						
:	:	:						
:	I	I	:	I	I	I	I	I
:	I	CPU	I	:	I	Destination	ID2	ID3 ID5 ID6 I
:	I	IC 7	I	:	I	-----I	---I	---I---I---I
:	I		I	:	I	0-00 (J)	INo	INo INo IYesI
:	I	-----I	:	I	-----I	---I	---I	---I---I
:			:	I	0-11 (K)	IYesI	IYesI	IYesIYesI
:			:	I	-----I	---I	---I	---I---I
:			:	I				

:	I_:I D2	I 0-21 (M)	IYesINo IYesIYesI
:	I_:I D3	I-----I---I---I---I---I	
:	I_:I D4	I 0-22 (M2)	IYesINo IYesINo I
:	I_:I D5	I-----I---I---I---I---I	
:	I_:I D6	I 0-71 (X)	INo IYesINo INo I
:	I_:I D6	I-----I---I---I---I---I	
	Control unit	I 2-71 (E)	INo IYesIYesIYesI
		I-----I---I---I---I---I	
		I 2-72 (E2)	INo IYesIYesINo I
		I-----I---I---I---I---I	

Secret functions after modification

The following functions are added if you modify the destination. See the appropriate description for details.

Frequency range change

Change the diodes (D2,D3,D5, and D6) as shown in the destination column of Table 2.

Cross-band repeater

Remove D4 and press the I F I key for one second, then the I 0 I key, to turn this I I function ON or OFF.

Answerback function (during paging reception)

Hold down the I Mhz I key and switch the POWER ON to turn this function I I ON or OFF.

300-Mhz band AM/FM switching

Hold down the I VFO I key and switch the POWER ON to switch between AM and FM. I I

VHF expansion band

Press the I F I key for one second, then the I BAND I key, to change the band. I I

UHF expansion band

Press the I F I key for one second, then the I BAND I key, to change the band. I I

Channel display mode

Hold down the I 3 I key and switch the POWER ON to change te
frequency I_____I display to the memory channel.
If you remove D1, only the channel is displayed. Normally, leave D1
in.

Clone function

Hold down the I 0 I key and switch the POWER ON to use this
function. I_____I

Secret function available without modification.(Game function)

Hold down the I M I and I PTT I key and switch the POWER ON to use
this function.I_____I I_____I

Cross-band repeater

When one band becomes busy, the cross-band repeater function retrans-
mits the received signal on the other band. As soon as the BUSY
signal for the receiver band goes low, the transceiver enter receive
mode on both bands.

Note 1: DTTS and paging are not checked.

Note Y: If TONE of the transmitter is on, a subtone is output.

Note 3: If the transmitter does not output a subtone, CTCSS is
checked.

Cross-band repeater ON/OFF

You can turn the cross-band repeater ON and OFF by pressing the

I F I key for one second, then the I 0 I key.
I_____I I_____I

The dot indicating Mhz on the frequency display (both bands) flashes
while the cross-band repeater function is on.

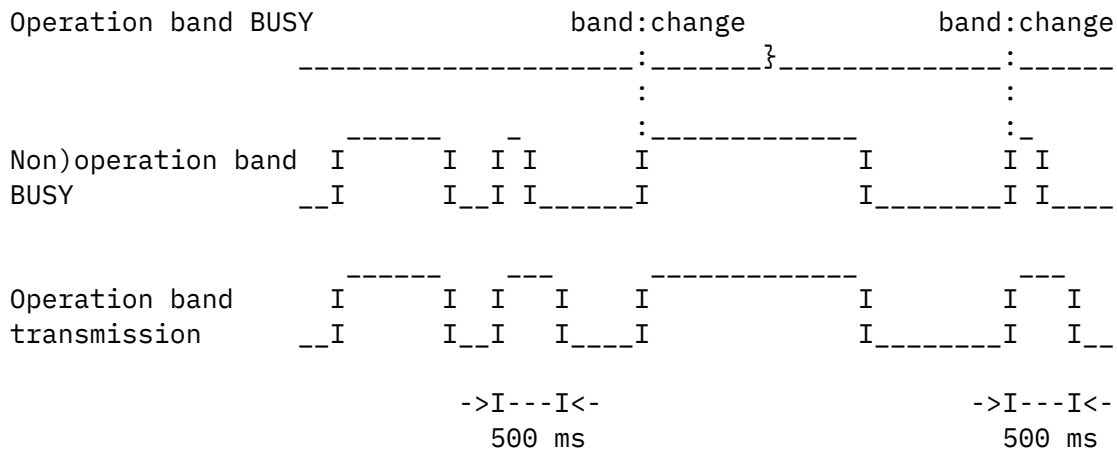
Note 1: The cross-band repeater does not turn on during dual watch.

Note 2: If you enable the cross-band repeater when the bell function
is on, the bell function is turned off and the cross-band
repeater function is turned on. You can turn the repeater on
only if the bell function for the operation band is off.

Note 3: A dedicated jumper is used to select whether to use the
cross-band repeater.

Note 4: The timeout timer is set to three minutes.

Cross-band repeater operation



Answerback function

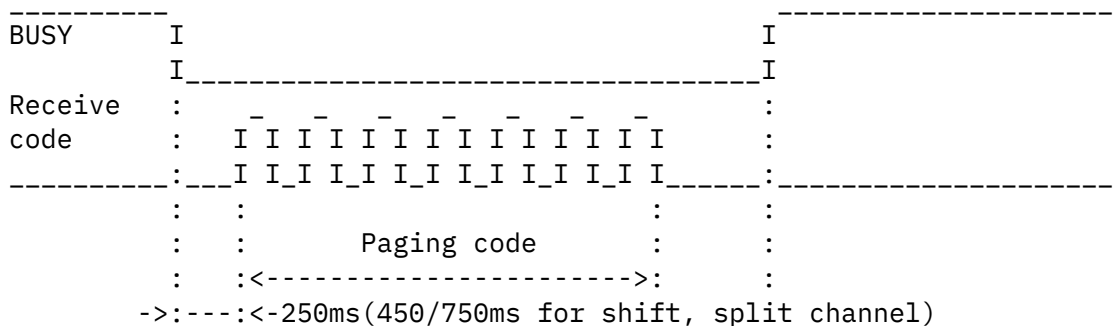
If the transmitter pages a receiver, it does not know whether the receiver has received the paging signal. When the answerback function is ON, the receiver returns a code automatically if the paging code matches to indicate that it has received the paging signal. The transmitter can thus confirm that the code it sent was actually received.

Operation

If the paging code matches and the busy signal goes low, the receiver returns a code. If the paging code does not match, the receiver does not return a code. The answerback function is related to the bell function: if you turn the bell function on when the answerback function is on, the answerback function works; If you turn the bell function off, the answerback function does not work. If the answerback function is off, only the bell function can be turned on or off. To turn the answerback function on and off, hold down the _____ key and switch the POWER ON.

I Mhz I
I_____I

Note : This function is available only if reception is modified.




```

:
:
:
:
:
TX      ON I-----I
:
:
:
:
:
Transmit : :
code      : :      Paging code      :
:
:      :<----->:
:      ->:---: <-250ms(450/750ms for shift, split channel)
:
Microphone OFF I-----I
:
I-----I

```

VHF expansion band

You can change the reception of AMATEUR band, AIR band, and POLICE band by pressing the _____ key for one second, then the _____

```

      I  F  I                      I  BAND  I
      I-----I                  I-----I

```

key, when the VHF band is VF0.

```

I-----I
I      Police band      I
I=====I=====I
I      Step      I      10, 20, 12.5, 25 Khz      I
I-----I-----I
I  Frequency range  I      300.000 -- 399.995 Mhz      I
I-----I-----I
I  Initial frequency I      340.000 Mhz      I
I-----I-----I

```

UHF expansion band

You can change the reception of AMATEUR band and CAR TELEPHONE band by pressing the _____ key for one second, then the _____ key,

```

      I  F  I                      I  BAND  I
      I-----I                  I-----I

```

when the UHF band is VF0.

```

I-----I
I      Car telephone      I
I=====I=====I

```

Step	12.5, 25 Khz
Frequency range	800.000 - 949.987.5 Mhz
Initial frequency	800.000 Mhz

- Note 1: Program scan cannot be performed over bands. It can only be performed within each band.
- Note 2: You cannot change the band in MR and CALL modes.
- Note 3: The AIR band frequency range is shown below. It is contiguous in the VHF amateur band frequency range.
- Note 4: The initial step is the same as the VHF amateur band step.
- Note 5: If the AIR band is received as the UHF subband, FM reception is performed.
- Note 6: The step is the same as the VHF band step.

Air	
Step	5, 10, 15, 20, 12.5, 25 Khz
Frequency range	50.000 - 135.995 Mhz

Channel display mode

Select the channel mode by cutting D1 on the CONTROL UNIT.

If you cut D1 on the CONTROL UNIT, you can use channel display mode only. You cannot change it to normal display mode from the panel. If you do not cut D1 on the CONTROL UNIT, you can change between channel display mode and normal display mode by holding the _____ key and switch the POWER ON.

3

Note : Memory channels for both bands must contain frequencies. If nothing is stored in memory, an error occurs.

Have fun...

Bye

Date: 26 Feb 93 04:50:19 GMT
From: news.cerf.net!pagesat!olivea!sgigate!sgiblab!muninari.oz.au!metro!
mippet.ci.com.au!eram!dave@network.UCSD.EDU
Subject: Soldering PL259's
To: info-hams@ucsd.edu

Use "N" connectors :-) And BNC for small coax. It's worth it.

--
Dave Horsfall (VK2KFU) VK2KFU @ VK2RWI.NSW.AUS.OC
dave@esi.COM.AU ...muninari!esi.COM.AU!dave

Date: Fri, 26 Feb 1993 11:49:01 GMT
From: sdd.hp.com!apollo.hp.com!hpwin052!hpqmoea!dstock@network.UCSD.EDU
Subject: too darn big!
To: info-hams@ucsd.edu

Fred and Paul have both said that there isn't much hope of people putting contentious (No-code, closed repeaters etc) into a special group reserved for them. This is an obvious and undeniable human trait, these people arguing are preaching, and their aim is to convert others to their point of view. Naturally they will not choose to hold arguments in a place where the audience is limited when all the "floating voters" who could be convinced read .misc mostly.

Let's try it the other way round, what would happen if we set up a whole pile of new groups for the non-argumentative subjects (Kenwood mods, alinco mods, QRP, homebrew, Antennae.....) ?
I'd expect the quiet, non-argumentative people to use them properly, although the majority would still, perhaps, read them all.
I'd expect the permanent floating arguments to then follow the (unwilling) audience into any groups showing much traffic or by just cross-posting to the whole lot. r.r.a.policy was created for the contentious issues to go to, but they didn't go. Anywhere the non-contentious traffic can go to, the floating arguments can follow. If we cannot exile them or run away from them, we can only either fix them or tolerate them.

From reading some of the longest lived arguments, from a place far away from some of the issues involved, I could not help forming the opinion that it seems to take more guts to say " It isn't important, I'm not affected, or I don't care" than it does to take a side and fight.

Date: Fri, 26 Feb 1993 06:37:38 GMT
From: pacbell.com!amdahl!netcomsv!netcom.com!mont@network.UCSD.EDU
To: info-hams@ucsd.edu

References <w2a48j@rpi.edu>, <1993Feb22.142403.9021@mixcom.com>,
<1993Feb23.175316.8111@telesoft.com>
Subject : Re: DESPERATE...NEED TO KNOW FACTS CONCERNING LEGALITY

In article <1993Feb23.175316.8111@telesoft.com> garym@telesoft.com (Gary Morris @ignite) writes:
>In <1993Feb22.142403.9021@mixcom.com> kevin.jessup
<kevin.jessup@mixcom.mixcom.com> writes:
>>I know it is illegal to transmit out of band. Forgive my ignorance (I'm new
>>at this: still waiting to receive my license) but I remember reading something
>>in the ARRL book "Now Your Talking" about out-of-band transmit being OK in an
>>emergency situation.
>
>>Is this true? And can anyone provide more detail on this matter? What does
>>the "letter-of-the-law" say?
>
>This is getting to be a FAQ. Here's the text from Part 97:
>--GaryM
>

Well, to get right to the point:

ANYBODY CAN USE ANY RADIO ON ANY FREQUENCY IN AN EMERGENCY SITUATION

Just make sure it's a real emergency. If life or property is in immediate danger this will always qualify. It's just all the gray areas of interpretation around this that causes problems.

Actually, it sorta bugs me buying a radio that has a wider range on the receiver than on the transmitter. Not that I want to go out of band, but what happens if the band is extended next year and it becomes legal to transmit there....

73,

--

Mont Pierce

```
+-----+
| Ham Call: KM6WT           Internet:  mont@netcom.com      |
|   bands: 80/40/20/2       IBM vnet:  mont@vnet.ibm.com    |
|   modes: cw,ssb,fm        |                               |
+-----+
```

| qth: Fremont, CA Religion: Jehovah's Witnesses 9/72 |
+-----+

Date: 26 Feb 93 08:55:41 GMT
From: usc!howland.reston.ans.net!agate!doc.ic.ac.uk!uknet!uos-ee!ee.surrey.ac.uk!
M.Willis@network.UCSD.EDU
To: info-hams@ucsd.edu

References <Dennis_Birch-220293124531@dbirch.mktg.stratus.com>,
<14570654@hpnmdla.sr.hp.com>, <1993Feb24.161215.10753@ke4zv.uucp>
Subject : Re: Soldering PL259's

Buy an N-type. Use an adaptor if you have to use PL259s.

Mike

End of Info-Hams Digest V93 #259
